

Space Chat Podcast - 19th December, 2025



Topics

- **NASA Confirms New Organic Molecules in Enceladus' Hidden Ocean**

NASA's re-analysis of Cassini's 2008 plume data reveals newly detected organic molecules in fresh ice grains ejected from Enceladus's ocean. These findings offer the clearest look yet at the moon's internal chemistry and strengthen the case for a potentially habitable environment beneath the ice.

<https://youtu.be/Xu3UTKfYmUE>

- **New Research Suggests the Universe's End Is Closer Than Expected**

A new theoretical study suggests the Universe may end far sooner than expected. According to researchers, neutron stars, white dwarfs, and even black holes slowly evaporate through quantum processes—meaning nothing in the cosmos is truly permanent. This discovery reshapes our understanding of the Universe's far future.

<https://youtu.be/17twEsJz0CU>

- **3I/ATLAS Emits X-Rays as It Passes Through Our Solar System**

ESA's XMM-Newton space telescope has detected interstellar comet 3I/ATLAS emitting X-rays as it passed through the Solar System. This rare observation gives scientists a new way to study material formed around other stars and understand how interstellar objects interact with the solar wind.

<https://youtu.be/jVSg417gwVw>